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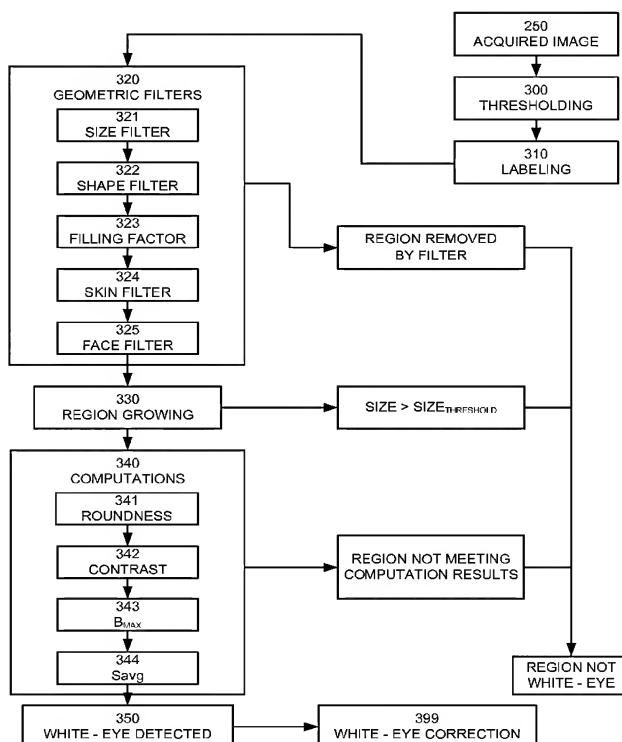
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[Continued on next page]

(54) Title: AUTOMATIC DETECTION AND CORRECTION OF NON-RED EYE FLASH DEFECTS



(57) Abstract: A technique for detecting large and small non-red eye flash defects in an image is disclosed. The method comprises selecting pixels of the image which have a luminance above a threshold value and labeling neighboring selected pixels as luminous regions. A number of geometrical filters are applied to the luminous regions to remove false candidate luminous regions.

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FIGURE 3



MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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| International application No. PCT/US 07/62090 |
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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06K 9/40 (2007.01)

USPC - 382/275

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8): G06K 9/40 (2007.01)

USPC: 382/275

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 382/167, 190, 159 (text search)Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST(USPT,PGPB,EPO,JPO,DERWENT); DialogPRO(Engineering); Google
Search terms: no red eye bright flare white reduction effect defect filter remove process edit image photo photograph luminance bright threshold minimum maximum max min score

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | US 2005/0238230 A1 (YOSHIDA) 27 October 2005 (27.10.2005), fig 4-8, para [0042], [0045]-[0064], [0072]. | 1-20 |
| A | US 5,748,764 A (BENATI et al.) 05 May 1998 (05.05.1998), fig 4; col 1, ln 65 to col 2, ln 47; col 4, ln 1-5; col 6, ln 16-55; col 9, ln 8-26. | 1, 9 and 11 |
| A | US 2004/0047491 A1 (RYDEK) 11 March 2004 (11.03.2004), para [0010]-[0013], [0035]-[0037], [0053]. | 1, 9 and 11 |

Further documents are listed in the continuation of Box C.

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